



1/8

SEQUENCE LISTING

<110> Andrew, David P.
Zabel, Brian A.
Ponath, Paul D.

<120> ANTI-GPR-9-6 ANTIBODIES AND METHODS OF
IDENTIFYING MODULATORS OF GPR-9-6 FUNCTION

<130> 1855.1064-003

<140> US 09/522,752

<141> 2000-03-10

<150> US 09/266,464

<151> 1999-03-11

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<211> 2577

<212> DNA

<213> Homo sapiens

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Ala Asp Asp Tyr Gly Ser Glu Ser Thr Ser Ser Met Glu Asp Tyr Val
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aac ttc aac ttc act gac ttc tac tgt gag aaa aac aat gtc agg cag 156
Asn Phe Asn Phe Thr Asp Phe Tyr Cys Glu Lys Asn Asn Val Arg Gln
20 25 30

ttt gcg agc cat ttc ctc cca ccc ttg tac tgg ctc gtg ttc atc gtg 204
Phe Ala Ser His Phe Leu Pro Pro Leu Tyr Trp Leu Val Phe Ile Val
35 40 45

ggg gcc ttg ggc aac agt ctt gtt atc ctt gtc tac tgg tac tgc aca 252
Gly Ala Leu Gly Asn Ser Leu Val Ile Leu Val Tyr Trp Tyr Cys Thr
50 55 60 65

aga gtg aag acc atg acc gac atg ttc ctt ttg aat ttg gca att gct 300
Arg Val Lys Thr Met Thr Asp Met Phe Leu Leu Asn Leu Ala Ile Ala
70 75 80

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Asp Leu Leu Phe Leu Val Thr Leu Pro Phe Trp Ala Ile Ala Ala Ala	
85 90 95	
gac cag tgg aag ttc cag acc ttc atg tgc aag gtg gtc aac agc atg	396
Asp Gln Trp Lys Phe Gln Thr Phe Met Cys Lys Val Val Asn Ser Met	
100 105 110	
tac aag atg aac ttc tac agc tgt gtg ttg ctg atc atg tgc atc agc	444
Tyr Lys Met Asn Phe Tyr Ser Cys Val Leu Leu Ile Met Cys Ile Ser	
115 120 125	
gtg gac agg tac att gcc att gcc cag gcc atg aga gca cat act tgg	492
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Arg Glu Lys Arg Leu Leu Tyr Ser Lys Met Val Cys Phe Thr Ile Trp	
150 155 160	
gta ttg gca gct gct ctc tgc atc cca gaa atc tta tac agc caa atc	588
Val Leu Ala Ala Leu Cys Ile Pro Glu Ile Leu Tyr Ser Gln Ile	
165 170 175	
aag gag gaa tcc ggc att gct atc tgc acc atg gtt tac cct agc gat	636
Lys Glu Glu Ser Gly Ile Ala Ile Cys Thr Met Val Tyr Pro Ser Asp	
180 185 190	
gag agc acc aaa ctg aag tca gct gtc ttg acc ctg aag gtc att ctg	684
Glu Ser Thr Lys Leu Lys Ser Ala Val Leu Thr Leu Lys Val Ile Leu	
195 200 205	
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Gly Phe Phe Leu Pro Phe Val Val Met Ala Cys Cys Tyr Thr Ile Ile	
210 215 220 225	
att cac acc ctg ata caa gcc aag aag tct tcc aag cac aaa gcc cta	780
Ile His Thr Leu Ile Gln Ala Lys Lys Ser Ser Lys His Lys Ala Leu	
230 235 240	
aaa gtg acc atc act gtc ctg acc gtc ttt gtc ttg tct cag ttt ccc	828
Lys Val Thr Ile Thr Val Leu Thr Val Phe Val Leu Ser Gln Phe Pro	
245 250 255	
tac aac tgc att ttg ttg gtg cag acc att gac gcc tat gcc atg ttc	876
Tyr Asn Cys Ile Leu Leu Val Gln Thr Ile Asp Ala Tyr Ala Met Phe	
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atc tcc aac tgt gcc gtt tcc acc aac att gac atc tgc ttc cag gtc	924
Ile Ser Asn Cys Ala Val Ser Thr Asn Ile Asp Ile Cys Phe Gln Val	
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Thr Gln Thr Ile Ala Phe Phe His Ser Cys Leu Asn Pro Val Leu Tyr	
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 310 315 320

aac ttg ggt tgc atc agc cag gcc cag tgg gtt tca ttt aca agg aga 1068
 Asn Leu Gly Cys Ile Ser Gln Ala Gln Trp Val Ser Phe Thr Arg Arg
 325 330 335

gag gga agc ttg aag ctg tgc tct atg ttg ctg gag aca acc tca gga 1116
 Glu Gly Ser Leu Lys Leu Ser Ser Met Leu Leu Glu Thr Thr Ser Gly
 340 345 350

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 <213> Homo sapiens

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 Gln Phe Ala Ser His Phe Leu Pro Pro Leu Tyr Trp Leu Val Phe Ile
 35 40 45
 Val Gly Ala Leu Gly Asn Ser Leu Val Ile Leu Val Tyr Trp Tyr Cys
 50 55 60
 Thr Arg Val Lys Thr Met Thr Asp Met Phe Leu Leu Asn Leu Ala Ile
 65 70 75 80
 Ala Asp Leu Leu Phe Leu Val Thr Leu Pro Phe Trp Ala Ile Ala Ala
 85 90 95

Ala	Asp	Gln	Trp	Lys	Phe	Gln	Thr	Phe	Met	Cys	Lys	Val	Val	Asn	Ser
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Met	Tyr	Lys	Met	Asn	Phe	Tyr	Ser	Cys	Val	Leu	Leu	Ile	Met	Cys	Ile
		115					120					125			
Ser	Val	Asp	Arg	Tyr	Ile	Ala	Ile	Ala	Gln	Ala	Met	Arg	Ala	His	Thr
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Trp	Arg	Glu	Lys	Arg	Leu	Leu	Tyr	Ser	Lys	Met	Val	Cys	Phe	Thr	Ile
145					150					155					160
Trp	Val	Leu	Ala	Ala	Ala	Leu	Cys	Ile	Pro	Glu	Ile	Leu	Tyr	Ser	Gln
				165					170						175
Ile	Lys	Glu	Glu	Ser	Gly	Ile	Ala	Ile	Cys	Thr	Met	Val	Tyr	Pro	Ser
			180					185					190		
Asp	Glu	Ser	Thr	Lys	Leu	Lys	Ser	Ala	Val	Leu	Thr	Leu	Lys	Val	Ile
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Leu	Gly	Phe	Phe	Leu	Pro	Phe	Val	Val	Met	Ala	Cys	Cys	Tyr	Thr	Ile
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Ile	Ile	His	Thr	Leu	Ile	Gln	Ala	Lys	Lys	Ser	Ser	Lys	His	Lys	Ala
225				230						235					240
Leu	Lys	Val	Thr	Ile	Thr	Val	Leu	Thr	Val	Phe	Val	Leu	Ser	Gln	Phe
				245					250					255	
Pro	Tyr	Asn	Cys	Ile	Leu	Leu	Val	Gln	Thr	Ile	Asp	Ala	Tyr	Ala	Met
		260					265						270		
Phe	Ile	Ser	Asn	Cys	Ala	Val	Ser	Thr	Asn	Ile	Asp	Ile	Cys	Phe	Gln
		275					280					285			
Val	Thr	Gln	Thr	Ile	Ala	Phe	Phe	His	Ser	Cys	Leu	Asn	Pro	Val	Leu
	290					295					300				
Tyr	Val	Phe	Val	Gly	Glu	Arg	Phe	Arg	Arg	Asp	Leu	Val	Lys	Thr	Leu
305				310						315					320
Lys	Asn	Leu	Gly	Cys	Ile	Ser	Gln	Ala	Gln	Trp	Val	Ser	Phe	Thr	Arg
			325						330					335	
Arg	Glu	Gly	Ser	Leu	Lys	Leu	Ser	Ser	Met	Leu	Leu	Glu	Thr	Thr	Ser
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<212> PRT

<213> Artificial Sequence

<220>

<223> NH2-Terminal Peptide of Human GPR-9-6

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<211> 35

<212> DNA

<213> Artificial Sequence

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<212> DNA
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<223> Oligonucleotide primer

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<210> 6
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

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<210> 7
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

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<213> Homo sapiens

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gctgtgctcc ggcgcgctg gacttaccgg atccaggagg tgagcgggag ctgcaatctg 180
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caccacaaca ygcagacctt ccaagcaggc cctcatgctg taaagaagtt gaggtaatgga 360
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<212> PRT

<213> Homo Sapiens

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20          25          30
Ala Tyr His Tyr Pro Ile Gly Trp Ala Val Leu Arg Arg Ala Trp Thr
35          40          45
Tyr Arg Ile Gln Glu Val Ser Gly Ser Cys Asn Leu Pro Ala Ala Ile
50          55          60
Phe Tyr Leu Pro Lys Arg His Arg Lys Val Cys Gly Asn Pro Lys Ser
65          70          75          80
Arg Glu Val Gln Arg Ala Met Lys Leu Leu Asp Ala Arg Asn Lys Val
85          90          95
Phe Ala Lys Leu His His Asn Xaa Gln Thr Phe Gln Ala Gly Pro His
100         105         110
Ala Val Lys Lys Leu Ser Ser Gly Asn Ser Lys Leu Ser Ser Ser Lys
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Phe Ser Asn Pro Ile Ser Ser Ser Lys Arg Asn Val Ser Leu Leu Ile
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Ser Ala Asn Ser Gly Leu
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<210> 10

<211> 876

<212> DNA

<213> Homo sapiens

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gctgtgctcc ggcgcgcctg gacttaccgg atccaggagg tgagcgggag ctgcaatctg 180

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cctgctgcca tattctacct ccccaagaga cacaggaagg tgtgtgggaa ccccaaaagc 240
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840
 876

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 20 25 30
 Ala Tyr His Tyr Pro Ile Gly Trp Ala Val Leu Arg Arg Ala Trp Thr
 35 40 45
 Tyr Arg Ile Gln Glu Val Ser Gly Ser Cys Asn Leu Pro Ala Ala Ile
 50 55 60
 Phe Tyr Leu Pro Lys Arg His Arg Lys Val Cys Gly Asn Pro Lys Ser
 65 70 75 80
 Arg Glu Val Gln Arg Ala Met Lys Leu Leu Asp Ala Arg Asn Lys Val
 85 90 95
 Phe Ala Lys Leu His His Asn Xaa Gln Thr Phe Gln Gly Pro His Ala
 100 105 110
 Val Lys Lys Leu Ser Ser Gly Asn Ser Lys Leu Ser Ser Ser Lys Phe
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 Ser Asn Pro Ile Ser Ser Ser Lys Arg Asn Val Ser Leu Leu Ile Ser
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 Ala Asn Ser Gly Leu
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<210> 12
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 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer

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32

<210> 13
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer

<400> 13
 caagaattct taattgttct ttctgggcat

30

<210> 14
 <211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

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<210> 15

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

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40